

[2008/10/16 12:09] You: AS usual, we have split the session into three parts

[2008/10/16 12:09] Dom Easterwood is Online

[2008/10/16 12:09] You: THE first part involves some participation

[2008/10/16 12:09] You: That'swith me

[2008/10/16 12:10] You: The second part, Scath will take over

[2008/10/16 12:10] You: The third part, we will visit a place to see some interesting geometry

[2008/10/16 12:10] You: For this part, you will need some supplys

[2008/10/16 12:10] You: An A4 piece of paper

[2008/10/16 12:10] You: A pen

[2008/10/16 12:10] Kickaha Wolfenhaut: lol

[2008/10/16 12:10] You: Sellotape

[2008/10/16 12:11] Kickaha Wolfenhaut: I'm a student, not a staionery shop

[2008/10/16 12:11] You: no laughing at the back

[2008/10/16 12:11] Jen Dratman: loo rol1l middles

[2008/10/16 12:11] Scathach Rhiadra: lol

[2008/10/16 12:11] Kester Magic: i'm an idiot!

[2008/10/16 12:11] Lambchop Magic: plastic washing up bottle

[2008/10/16 12:11] Kickaha Wolfenhaut: lol Jen , sticky back plastic

[2008/10/16 12:11] You: and scissors (blunt ones in Kicks case)

[2008/10/16 12:11] You: he'sdangerous

[2008/10/16 12:11] Kester Magic: loooks harmless to me!

[2008/10/16 12:11] You: You have no idea!

[2008/10/16 12:11] You: ;)

[2008/10/16 12:11] Jen Dratman: never trust a raven with scissors, my grandma used to say

[2008/10/16 12:12] You: So have we all got those things?

[2008/10/16 12:12] Kickaha Wolfenhaut: Guess

[2008/10/16 12:12] Jen Dratman: brb

[2008/10/16 12:12] Kickaha Wolfenhaut: brb

[2008/10/16 12:12] Kester Magic: i'll just listen thnx!

[2008/10/16 12:12] CC Exonar is Offline

[2008/10/16 12:12] Hennamono Morpork: Some of them...

[2008/10/16 12:12] You: I thought students would have these things to hand ;)

[2008/10/16 12:12] You: let me know when you are ready to continue

[2008/10/16 12:12] Lambchop Magic: back from kitchen with scissors now

[2008/10/16 12:13] Jen Dratman: I do all my work online.. does it matter if my paper has words on?

[2008/10/16 12:13] Mary Zimer: ok

[2008/10/16 12:13] Kickaha Wolfenhaut: have pen and paper, but no sellotape - it's not December yet.

[2008/10/16 12:13] Lambchop Magic: lol kic

[2008/10/16 12:13] Christine Teatime: mine isn't A4 - smaller, is that OK?

[2008/10/16 12:13] You: not at all Jen as long as you have a little spot you can write

[2008/10/16 12:13] Scathach Rhiadra: lol

[2008/10/16 12:13] Lambchop Magic: I am ready

[2008/10/16 12:13] Jen Dratman: oh.. no it's full of words

[2008/10/16 12:13] You: yes - Any size will do - It will become apparent shortly

[2008/10/16 12:13] Hennamono Morpork: Readyish

[2008/10/16 12:13] Jen Dratman: brb agian

[2008/10/16 12:13] Kester Magic: taechers pet!

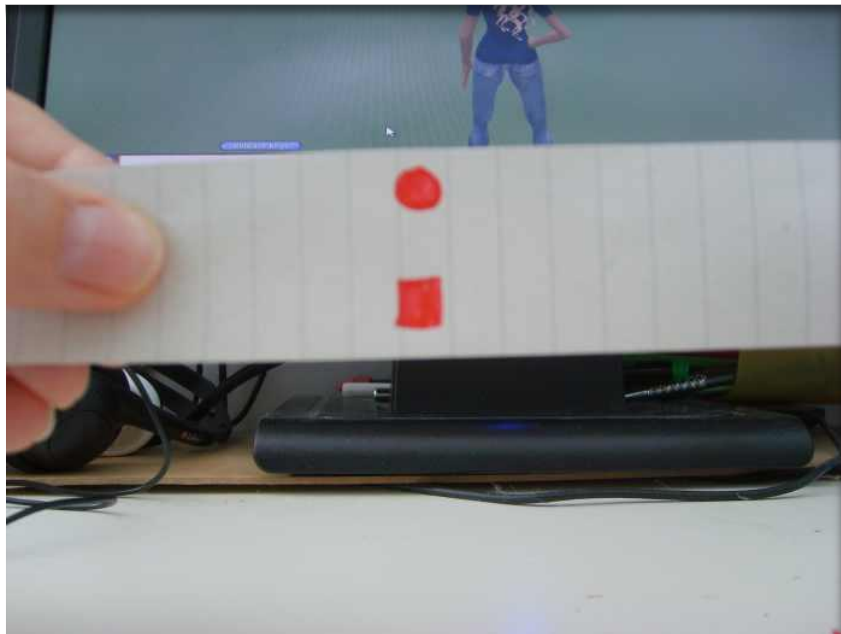
[2008/10/16 12:13] Kester Magic: teachers\*

[2008/10/16 12:14] Lambchop Magic: ROFL  
 [2008/10/16 12:14] You: lol  
 [2008/10/16 12:14] Kester Magic: I've had a drink lol  
 [2008/10/16 12:14] Hennamono Morpork: Rips paper out of printer...  
 [2008/10/16 12:14] Lambchop Magic: so the lesson today is how to organise yourselves lol  
 [2008/10/16 12:14] You: That will make it even more fun Kester  
 [2008/10/16 12:14] You: lol @Lamb  
 [2008/10/16 12:14] Kester Magic: she looks like a teacher kick!  
 [2008/10/16 12:14] Jen Dratman: ok back  
 [2008/10/16 12:14] You: You all need to be able to see the board. Wait for me to ask you to continue when I give you instructions. Don't jump ahead.  
 [2008/10/16 12:15] You: Are we ready?  
 [2008/10/16 12:15] Lambchop Magic: yes  
 [2008/10/16 12:15] Jen Dratman: aye aye  
 [2008/10/16 12:15] Mary Zimer: yep  
 [2008/10/16 12:15] You: OK  
 [2008/10/16 12:15] You: We are going to investigate the Mobius strip



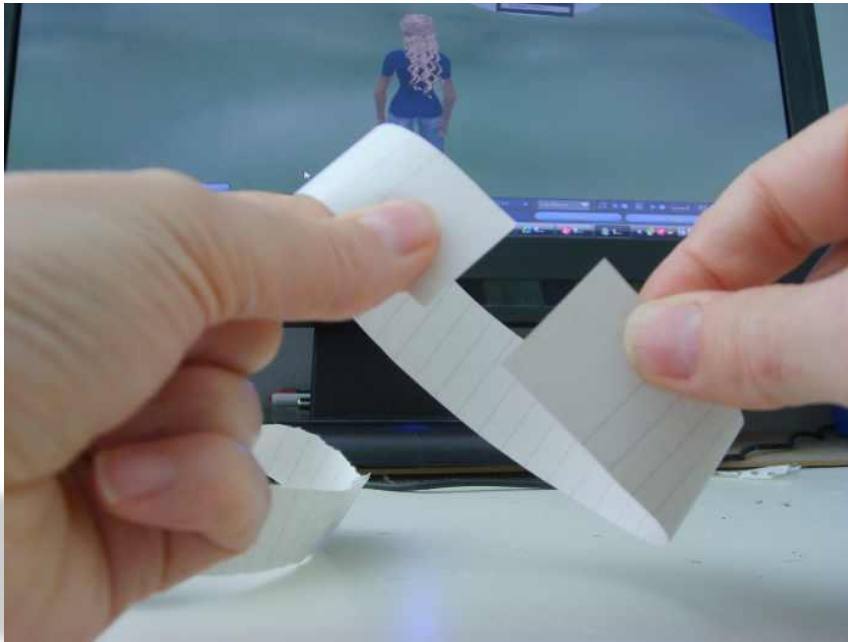
[2008/10/16 12:15] You: Have you all heard of this?  
 [2008/10/16 12:16] Lambchop Magic: no  
 [2008/10/16 12:16] Christine Teatime: no  
 [2008/10/16 12:16] Jen Dratman: yes  
 [2008/10/16 12:16] Kickaha Wolfenhaut: Heard of.  
 [2008/10/16 12:16] Mary Zimer: yes  
 [2008/10/16 12:16] Jen Dratman: moebius band  
 [2008/10/16 12:16] You: What music do they play Jen ;P  
 [2008/10/16 12:16] Jen Dratman: very edgy  
 [2008/10/16 12:16] You: The mobius strip has some interesting properties. Some you would not expect are possible  
 [2008/10/16 12:17] You: August Ferdinand Mobius was born 1790 in Saxony (now Germany), and died in 1868, in Leipzig. His father died when he was three years old.  
 [2008/10/16 12:17] You: Mobius was a pioneer in the field of topology. Topology is the study of those properties of geometric figures that remain unchanged even when under distortion  
 [2008/10/16 12:18] You: So we are going to build one and look at it's properties  
 [2008/10/16 12:18] You: and try and think about what we have seen

[2008/10/16 12:18] Lambchop Magic: Hi Aseret  
[2008/10/16 12:18] You: First step. Tear (Or cut) a strip (as long as you can make it) from the A4 sheet about 3 cm wide  
[2008/10/16 12:18] Aseret Quintessa: Hye everyone  
[2008/10/16 12:19] You: down it's length would be good  
[2008/10/16 12:19] You: Hi ASeret  
[2008/10/16 12:19] Aseret Quintessa: Hi :)  
[2008/10/16 12:19] You: Everyone done that?  
[2008/10/16 12:19] Lambchop Magic: yes  
[2008/10/16 12:19] Aseret Quintessa: Hi Lamb  
[2008/10/16 12:19] You: It doesn't have to be perfect  
[2008/10/16 12:19] Hennamono Morpork: Done this before....:)  
[2008/10/16 12:20] Lambchop Magic: watched Blue peter then henna  
[2008/10/16 12:20] You: Next, lay the strip on the table and mark it like the one on the board  
[2008/10/16 12:20] You: Near one edge, mark a Square, near the other edge, a circle  
[2008/10/16 12:20] You: Can you all see that?



[2008/10/16 12:20] Scathach Rhiadra: Hi Aseret, didn't see you there:)  
[2008/10/16 12:20] Jen Dratman: ok..  
[2008/10/16 12:21] Lambchop Magic: ok  
[2008/10/16 12:21] Aseret Quintessa: Hi Scathach  
[2008/10/16 12:21] You: everyone made their mark?  
[2008/10/16 12:21] Kickaha Wolfenhaut: Yup

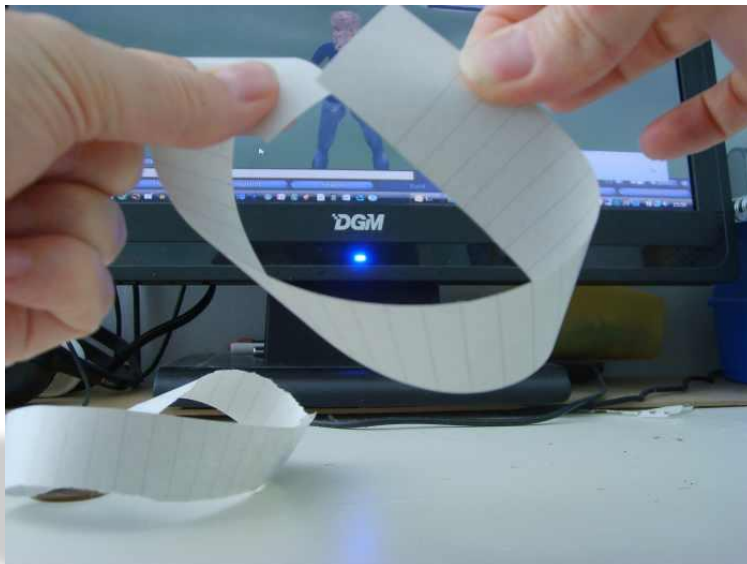
[2008/10/16 12:21] You: Bring the ends together



[2008/10/16 12:21] Mary Zimer: yes

[2008/10/16 12:21] Lambchop Magic: dots inside or outside

[2008/10/16 12:21] You: but before we stick it together, give it a twist



[2008/10/16 12:21] Hennamono Morpork: Inside or outside... lol

[2008/10/16 12:22] CC Exonar is Online

[2008/10/16 12:22] Lambchop Magic: lol

[2008/10/16 12:22] You: it doesn't matter which way or which end you twist

[2008/10/16 12:22] Aseret Quintessa: lol

[2008/10/16 12:22] You: only half a turn

[2008/10/16 12:22] You: when you have twisted, tape the ends together

[2008/10/16 12:22] You: (thats' the tricky part  
[2008/10/16 12:22] Groovy Magic is Online  
[2008/10/16 12:23] Kester Magic: did ou have you're nails done for the pictures becka?  
[2008/10/16 12:23] You: HHow are you doing?  
[2008/10/16 12:23] You: lol  
[2008/10/16 12:23] Kickaha Wolfenhaut: Hi Lionel  
[2008/10/16 12:23] You: No - THey were awful ;)  
[2008/10/16 12:23] Lambchop Magic: Hi Li  
[2008/10/16 12:23] Aseret Quintessa: Hi  
[2008/10/16 12:23] Kester Magic: hi li  
[2008/10/16 12:23] You: everyone done that?  
[2008/10/16 12:23] Lambchop Magic: yes  
[2008/10/16 12:23] Jen Dratman: yes  
[2008/10/16 12:23] You: OK - How many sides did your paper have to start with?  
[2008/10/16 12:24] Hennamono Morpork: 2  
[2008/10/16 12:24] You: yes  
[2008/10/16 12:24] You: How many has it now got?  
[2008/10/16 12:24] Lambchop Magic: two  
[2008/10/16 12:24] Jen Dratman: one  
[2008/10/16 12:24] You: a difference of opinion :)  
[2008/10/16 12:24] Kester Magic: four  
[2008/10/16 12:24] Hennamono Morpork: It's 1  
[2008/10/16 12:24] You: Can you think of a way of investigating this?  
[2008/10/16 12:24] Hennamono Morpork: Or 3...  
[2008/10/16 12:25] Christine Teatime: 1  
[2008/10/16 12:25] Kickaha Wolfenhaut: Colour one in  
[2008/10/16 12:25] Jen Dratman: draw a line  
[2008/10/16 12:25] Jen Dratman: on one side  
[2008/10/16 12:25] You: That's one way. The simple way is to trace your finger around from the marks we made  
[2008/10/16 12:25] Lambchop Magic: ok one  
[2008/10/16 12:25] You: the dot and circle  
[2008/10/16 12:25] Christine Teatime: ran my finger around it  
[2008/10/16 12:25] Lambchop Magic: I ran finger round it  
[2008/10/16 12:26] You: follow around and without taking your finger off the paper, see if you can find two sides  
[2008/10/16 12:26] You: You will find that the paper only has one side now!  
[2008/10/16 12:26] Jen Dratman: well, I held on one side with my thumb and the other with my finger  
[2008/10/16 12:27] Jen Dratman: but it all goes round  
[2008/10/16 12:27] You: and you you will always go over the dot and square with BOTH fnger and thumb  
[2008/10/16 12:27] You: Not EIHTER  
[2008/10/16 12:27] You: EITHER  
[2008/10/16 12:27] You: Is that what those of you who haven't seen the Mobius strip before expected?  
[2008/10/16 12:28] Lambchop Magic: no not at all  
[2008/10/16 12:28] You: phew  
[2008/10/16 12:28] You: :)  
[2008/10/16 12:28] Lambchop Magic: lol  
[2008/10/16 12:28] Aseret Quintessa: its brilliant  
[2008/10/16 12:28] You: Your paper now has only one side  
[2008/10/16 12:28] Jen Dratman: it is that  
[2008/10/16 12:28] Aseret Quintessa: brilliant  
[2008/10/16 12:28] Christine Teatime: no, good though

[2008/10/16 12:28] You: but wait - there is more  
[2008/10/16 12:29] You: If we cut this loops along the centre, what will happen?  
[2008/10/16 12:29] You: (Don't do it yet)  
[2008/10/16 12:29] You: think about it first  
[2008/10/16 12:29] Hennamono Morpork: Bites tongue...  
[2008/10/16 12:29] You: lol  
[2008/10/16 12:29] You: say Henn  
[2008/10/16 12:29] Aseret Quintessa: lol Henn  
[2008/10/16 12:29] Basic Chair: Right click me and choose 'Sit Here' to sit down  
[2008/10/16 12:29] You: what do you think will happen?  
[2008/10/16 12:29] Hennamono Morpork: " strips  
[2008/10/16 12:30] You: sorry?  
[2008/10/16 12:30] Hennamono Morpork: 2 not 2  
[2008/10/16 12:30] You: Does everyone agree with that?  
[2008/10/16 12:30] Kickaha Wolfenhaut: One strip, extra twist  
[2008/10/16 12:30] Hennamono Morpork: I think I have a keyboard problem  
[2008/10/16 12:30] Jen Dratman: what does w not 2 mean  
[2008/10/16 12:30] Christine Teatime: 2 sides?  
[2008/10/16 12:30] You: Henn said two, Kick says 1  
[2008/10/16 12:30] You: how many sides?  
[2008/10/16 12:31] Jen Dratman: counting both strips?  
[2008/10/16 12:31] Hennamono Morpork: 2 mobii  
[2008/10/16 12:31] Jen Dratman: 3 sides  
[2008/10/16 12:31] You: if you like  
[2008/10/16 12:31] Kester Magic: as a none participant could i be excused miss and i shall see you all later?  
[2008/10/16 12:31] Lambchop Magic: I don't know  
[2008/10/16 12:31] You: What will happen to the dot and the sqURE?  
[2008/10/16 12:31] Lionel Blaisdale: You will end up with two interlinked loops, each with only one side.  
[2008/10/16 12:31] You: square  
[2008/10/16 12:31] Lionel Blaisdale: A dot on one, a square on the other.  
[2008/10/16 12:31] Lionel Blaisdale: ?  
[2008/10/16 12:32] CC Exonar is Offline  
[2008/10/16 12:32] Lambchop Magic: Kester you chicken leaving at the easy part, see u later  
[2008/10/16 12:32] You: Any other suggestions?  
[2008/10/16 12:32] Jen Dratman: one loop 2 sides  
[2008/10/16 12:32] Kester Magic: MISS...can i be excused please?  
[2008/10/16 12:32] Kickaha Wolfenhaut: Agree with Jen.  
[2008/10/16 12:32] You: Yes Kester  
[2008/10/16 12:32] You: Homework later  
[2008/10/16 12:32] You: see me in the morning :p  
[2008/10/16 12:32] Kester Magic: thnak you see you all later  
[2008/10/16 12:32] Jen Dratman: bye k  
[2008/10/16 12:32] Kickaha Wolfenhaut: Bye  
[2008/10/16 12:32] Aseret Quintessa: bye  
[2008/10/16 12:32] Lambchop Magic: bye  
[2008/10/16 12:32] Scathach Rhiadra: bye  
[2008/10/16 12:32] Hennamono Morpork: bye

[2008/10/16 12:32] You: OK - Now cut it as you see on the board and see what happens



[2008/10/16 12:33] You: what you will find  
[2008/10/16 12:33] You: Is.....  
[2008/10/16 12:33] You: an extra twist  
[2008/10/16 12:33] You: ONE loop  
[2008/10/16 12:33] You: (not two)  
[2008/10/16 12:33] Jen Dratman: I can see beckas back.  
[2008/10/16 12:33] You: and the dot and square will not only be on opposite sides of the paper  
[2008/10/16 12:33] You: lol @jen  
[2008/10/16 12:34] You: but at opposite ends of the loop too  
[2008/10/16 12:34] Lambchop Magic: oops I have gone wrong then  
[2008/10/16 12:34] You: they will be seperated where they were together previously  
[2008/10/16 12:34] You: lol@lamb  
[2008/10/16 12:34] Jen Dratman: it's nice, do it with lots of different colour sticky paper for xmas  
[2008/10/16 12:34] You: lol. Did everyone get that?  
[2008/10/16 12:34] Kickaha Wolfenhaut: It's like trying to get your head round extra dimenions innit.  
[2008/10/16 12:35] Kickaha Wolfenhaut: ie. headache  
[2008/10/16 12:35] Aseret Quintessa: lol  
[2008/10/16 12:35] You: Yep Kick. You can see a 2D representation of a hypercube behind us in the exhibition. That's a cube in 4D  
[2008/10/16 12:35] Kickaha Wolfenhaut: Ouch  
[2008/10/16 12:35] Kickaha Wolfenhaut: see?  
[2008/10/16 12:35] You: Is hat beautifull ?  
[2008/10/16 12:35] You: that  
[2008/10/16 12:36] You: yes  
[2008/10/16 12:36] Lambchop Magic: Oh my dot and square are at opposite sides and my big circle has two twists but I have a seperate circle with no twists as well  
[2008/10/16 12:36] Scathach Rhiadra: yes:)



[2008/10/16 12:36] You: Look at the exhibition later on and you will see what I mean  
[2008/10/16 12:36] You: Lamb - it has 2 twsts  
[2008/10/16 12:36] You: or should have  
[2008/10/16 12:36] Lambchop Magic: yes but I have an extra circle now



[2008/10/16 12:37] Jen Dratman: did you start with a double twist  
[2008/10/16 12:37] You: really? Ooooh - You really are in the 4th dimension :)  
[2008/10/16 12:37] CC Exonar is Online  
[2008/10/16 12:37] You: yes - You may have twisted a complete turn  
[2008/10/16 12:37] Lambchop Magic: lol will show you picture later  
[2008/10/16 12:37] You: it only needed half a turn  
[2008/10/16 12:37] You: ok Lamb -  
[2008/10/16 12:37] You: :)  
[2008/10/16 12:37] Jen Dratman: you'll have to stay behind for extra tew  
[2008/10/16 12:38] Lambchop Magic: lol  
[2008/10/16 12:38] You: OK - THat's you starter for 10. Now over to Scatch who will ratchet things up a notch :)  
[2008/10/16 12:38] Scathach Rhiadra: ok, for this part we will go through some slides showing 2 mathematical equations  
[2008/10/16 12:39] Scathach Rhiadra: The fibonacci Sequence, and the Golden Ratio/section  
[2008/10/16 12:39] Scathach Rhiadra: they are related  
[2008/10/16 12:39] You: Da Vinci code eat your heart out ;)  
[2008/10/16 12:40] Scathach Rhiadra: we have to show some maths, so sorry:))  
[2008/10/16 12:40] Basic Chair: Right click me and choose 'Sit Here' to sit down  
[2008/10/16 12:40] Scathach Rhiadra: Leonardo of Pisa (c. 1170 - c. 1250), also known as Leonardo Pisano, Leonardo Bonacci, Leonardo Fibonacci, or, most commonly, simply Fibonacci, was an Italian



mathematician, considered by some "the most talented mathematician of the Middle Ages

[2008/10/16 12:40] Jen Dratman: have we stopped doing topology?  
[2008/10/16 12:41] Scathach Rhiadra: he is best known for this sequence of numbers, which had already been discovered in India c. 400 -250 BCE  
[2008/10/16 12:41] You: for now Jen  
[2008/10/16 12:41] Scathach Rhiadra: he was working on population problems, rabbits  
[2008/10/16 12:42] Scathach Rhiadra: and the sequence shows the growth of population over time  
[2008/10/16 12:42] Scathach Rhiadra: It occurs in nature  
[2008/10/16 12:42] Scathach Rhiadra: plant spirals  
[2008/10/16 12:43] Scathach Rhiadra: btw, tell me if slides don't rez  
[2008/10/16 12:43] You: rezzing fine here :)  
[2008/10/16 12:43] Jen Dratman: the other one didn't really, this one is just about ok  
[2008/10/16 12:43] Kickaha Wolfenhaut: I see a minora  
[2008/10/16 12:43] Kickaha Wolfenhaut: Ah got it  
[2008/10/16 12:43] Scathach Rhiadra: the branching of plants shows the sequence  
[2008/10/16 12:44] Kickaha Wolfenhaut: Woah  
[2008/10/16 12:44] Scathach Rhiadra: even the sections of fruit  
[2008/10/16 12:44] Kickaha Wolfenhaut: Could yo back up one please?  
[2008/10/16 12:44] Scathach Rhiadra: oops  
[2008/10/16 12:44] Kickaha Wolfenhaut: Ta  
[2008/10/16 12:44] Kickaha Wolfenhaut: OK, thanks  
[2008/10/16 12:44] Scathach Rhiadra: can you see it ok  
[2008/10/16 12:45] Kickaha Wolfenhaut: Yes, seen it now,. Thank you  
[2008/10/16 12:45] Lambchop Magic: it has rezzed this time ta  
[2008/10/16 12:45] Aseret Quintessa: yes  
[2008/10/16 12:45] Kickaha Wolfenhaut: Can you explain this one Scath?  
[2008/10/16 12:45] You: Do we have a theory why so many objects follow this pattern?  
[2008/10/16 12:45] Jen Dratman: sea urchins and starfish  
[2008/10/16 12:46] Lambchop Magic: Mother nature is a mathematician  
[2008/10/16 12:46] Scathach Rhiadra: well, it could go back to the age old question, Is mathematics 'discovered', i.e. exists in its own right, or is it created  
[2008/10/16 12:46] Kickaha Wolfenhaut: I can't help thinking that if humans had three legs it would be cited as supporting all this. But as we have two, we stick to starfish, lol.  
[2008/10/16 12:46] Hennomono Morpork: Mother mathematician is nature...  
[2008/10/16 12:47] You: But we have symmetry which is another natural law  
[2008/10/16 12:47] Jen Dratman: it does go 1,1,2,3,5  
[2008/10/16 12:47] Scathach Rhiadra: do we find equations for things that interest, or would they exist without us?  
[2008/10/16 12:47] Jen Dratman: if a tree falls with no-one around  
[2008/10/16 12:47] You: lol  
[2008/10/16 12:47] You: Tha nature of reality  
[2008/10/16 12:47] Scathach Rhiadra: anyway, its a philosophical question, so  
[2008/10/16 12:47] Jen Dratman: take any situation and imagine yuoursel gone  
[2008/10/16 12:48] Scathach Rhiadra: the Nautilus shell is the most famous example  
[2008/10/16 12:48] Scathach Rhiadra: of the spiral

[2008/10/16 12:49] Scathach Rhiadra: The Fibonacci numbers and principle is also used in the financial markets.

[2008/10/16 12:49] Scathach Rhiadra: some pseudorandom number generators.

[2008/10/16 12:50] Scathach Rhiadra: and strangely enough some music

[2008/10/16 12:50] Hennamono Morpork: Are we heading for Pascal's triangle?

[2008/10/16 12:50] Lambchop Magic: is someone typing and I am not getting it

[2008/10/16 12:50] Lambchop Magic: scrap that just got loads

[2008/10/16 12:50] Scathach Rhiadra: we won't have the time:)

[2008/10/16 12:50] Hennamono Morpork: I've had a few rushes...

[2008/10/16 12:51] Scathach Rhiadra: you may have heard of the Golden Ratio, or Section

[2008/10/16 12:51] Scathach Rhiadra: its a closed form of Fibonacci sequence

[2008/10/16 12:51] Jen Dratman: the words are very spidery and faint

[2008/10/16 12:52] Lambchop Magic: yes I can't read them

[2008/10/16 12:52] Jen Dratman: I saw a yellow rectangl & a yellow square

[2008/10/16 12:52] Aseret Quintessa: sorry neither can I

[2008/10/16 12:52] Scathach Rhiadra: it became popular in Art during the Rennaisence

[2008/10/16 12:52] Hennamono Morpork: Earlier surely?

[2008/10/16 12:53] Scathach Rhiadra: Some of the greatest mathematical minds of all ages, from Pythagoras and Euclid in ancient Greece, through the medieval Italian mathematician Leonardo of Pisa (Fibonacci) and the Renaissance astronomer Johannes Kepler, to present-day scientific figures such as Oxford physicist Roger Penrose, have spent endless hours over this simple ratio and its properties.

But the fascination with the Golden Ratio is not confined just to mathematicians.

[2008/10/16 12:53] Kickaha Wolfenhaut: Isn't decimal beautiful, lol

[2008/10/16 12:53] Hennamono Morpork: Periclean Greeks used it...

[2008/10/16 12:53] Scathach Rhiadra: Biologists, artists, musicians, historians, architects, psychologists, and even mystics have pondered and debated the basis of its ubiquity and appeal. In fact, it is probably fair to say that the Golden Ratio has inspired thinkers of all disciplines like no other number in the history of mathematics.

[2008/10/16 12:54] Jen Dratman: yes, just a simple 1.618 in a nice frame, and critical acclaim

[2008/10/16 12:54] Jen Dratman: none of this muckking about with sharks

[2008/10/16 12:54] Aseret Quintessa: lol Jen

[2008/10/16 12:54] Lambchop Magic: lol

[2008/10/16 12:54] Kickaha Wolfenhaut: I wonder why television was 4:3

[2008/10/16 12:54] Scathach Rhiadra: it shows up in Geometry

[2008/10/16 12:55] Scathach Rhiadra: The first known approximation of the (inverse) golden ratio by a decimal fraction, stated as "about 0.6180340," was written in 1597 by Prof. Michael Maestlin of the University of Tübingen in a letter to his former student Johannes Kepler

[2008/10/16 12:55] Scathach Rhiadra: Since the twentieth century, the golden ratio has been represented by the Greek letter (phi, after Phidias, a sculptor who is said to have employed it) or less commonly by  $\tau$  (tau, the first letter of the ancient Greek root  $\tau\omicron\mu\eta$ —meaning cut).

[2008/10/16 12:56] Jen Dratman: the black is better

[2008/10/16 12:56] Scathach Rhiadra: art is the most famous use of the Golden Section, also architecture

[2008/10/16 12:56] Hennamono Morpork: RL! Gotta go...

[2008/10/16 12:56] Scathach Rhiadra: last slide  
 [2008/10/16 12:56] Aseret Quintessa: bye Henn  
 [2008/10/16 12:56] You: Bye Henn  
 [2008/10/16 12:56] You: Bye Henn  
 [2008/10/16 12:56] Hennamono Morpork is Offline  
 [2008/10/16 12:57] Lambchop Magic: bye Henna  
 [2008/10/16 12:57] Leornian Naidoo is Online  
 [2008/10/16 12:57] Scathach Rhiadra: there is some dispute about use of the ratio in ancient times  
 [2008/10/16 12:57] Mcdude Snoodle is Offline  
 [2008/10/16 12:57] CC Exonar is Offline  
 [2008/10/16 12:58] Scathach Rhiadra: although it was discovered in ancient greece, many 'obsessives' find it in everything!  
 [2008/10/16 12:58] You: Perhaps that suggests it is a human invention then?  
 [2008/10/16 12:58] Jen Dratman: aren't there some human body things?  
 [2008/10/16 12:58] Scathach Rhiadra: right, it could  
 [2008/10/16 12:59] Kickaha Wolfenhaut: No, we're symetric, remember!  
 [2008/10/16 12:59] Kickaha Wolfenhaut: It's convenient to cherry-pick innit.  
 [2008/10/16 12:59] Jen Dratman: like the ratio of arm to leg length or leg to whole body  
 [2008/10/16 12:59] Scathach Rhiadra: yes, some ratios of the human body fit  
 [2008/10/16 12:59] Jen Dratman: I read a book about the great pyramid that was full of stuff like that  
 [2008/10/16 12:59] Lambchop Magic: brb checking on pain in neck  
 [2008/10/16 12:59] Jen Dratman: quite fun, but nonsense  
 [2008/10/16 13:00] Kickaha Wolfenhaut: While loads don't Some of this was put forward as evidence for artificial structures at Cydonia on Nars and dismissed as desperation.  
 [2008/10/16 13:00] Scathach Rhiadra: some people also see it in patterns in the solar system  
 [2008/10/16 13:00] Kickaha Wolfenhaut: Mars, not Nars, lol  
 [2008/10/16 13:00] CC Exonar is Online  
 [2008/10/16 13:00] Jen Dratman: power laws for planet size, then gravitaion  
 [2008/10/16 13:00] Jen Dratman: ?  
 [2008/10/16 13:00] Scathach Rhiadra: yes, but there are other explanati0ns for the great Pyrimid  
 [2008/10/16 13:01] Jen Dratman: more sensible ones, I'm sure  
 [2008/10/16 13:01] Scathach Rhiadra: it may be that is is pleasing to the eye, so we see it everywhere  
 [2008/10/16 13:01] Jen Dratman: Maybe the 4;3 thing for tellys is so that ancient electronic engineers could get the corners square  
 [2008/10/16 13:02] Scathach Rhiadra: lol  
 [2008/10/16 13:02] You: lol - You will see squaring the circle soon  
 [2008/10/16 13:02] Scathach Rhiadra: well that is it from me  
 [2008/10/16 13:02] Jen Dratman: oh goody  
 [2008/10/16 13:02] Jen Dratman: are there any undisputed golden sections in architecture?  
 [2008/10/16 13:02] Kickaha Wolfenhaut: Ththank you Scath - very interesting stuff.  
 [2008/10/16 13:03] Scathach Rhiadra: yes, loads  
 [2008/10/16 13:03] Kickaha Wolfenhaut: I'd put a fiver on the pyramid outside the Louvre, lol  
 [2008/10/16 13:03] Scathach Rhiadra: buildings are designed incorporating it

[2008/10/16 13:03] Aseret Quintessa: that was really interesting  
Scathach  
[2008/10/16 13:03] You: love that pyramid ;)  
[2008/10/16 13:03] Jen Dratman: we went from fibonacci to golden section  
- is there a relationship?  
[2008/10/16 13:04] You: Thanks a million Scath - I learned some stuff  
too :0  
[2008/10/16 13:04] Jen Dratman: like if you put  $fn$  over  $fn-1$   
[2008/10/16 13:04] Jen Dratman: ?  
[2008/10/16 13:04] Christine Teatime: Yes, thanks Scath, Becka  
[2008/10/16 13:04] Scathach Rhiadra: yes, you get the ratio from what is  
called a closed form of the sequence  
[2008/10/16 13:05] Jen Dratman: ok, thank you both - very interesting  
presentations.  
[2008/10/16 13:05] You: Right - We have a trip planned if you would like  
to go look at some lovely geometry?  
[2008/10/16 13:05] You: geometry  
[2008/10/16 13:05] Christine Teatime: I must go now - RL calls  
[2008/10/16 13:05] Aseret Quintessa: Yes thank you Becka and Scath  
[2008/10/16 13:05] Jen Dratman: me  
[2008/10/16 13:05] Jen Dratman: by christing  
[2008/10/16 13:05] Christine Teatime: Hopefully next time...  
[2008/10/16 13:06] Aseret Quintessa: Bye  
[2008/10/16 13:06] Scathach Rhiadra: bye  
[2008/10/16 13:06] You: I must warn you that there is a little lag at  
this place but give it a second or two and it will clear  
[2008/10/16 13:06] You: It's well worth a look around.  
[2008/10/16 13:06] Scathach Rhiadra: off to Tibet!  
[2008/10/16 13:06] Jen Dratman accepted your inventory offer.  
[2008/10/16 13:07] You: Did everyone get the landmak?  
[2008/10/16 13:07] Lambchop Magic accepted your inventory offer.  
[2008/10/16 13:07] Kickaha Wolfenhaut accepted your inventory offer.  
[2008/10/16 13:07] Jen Dratman: yes  
[2008/10/16 13:07] Lambchop Magic: yes ty  
[2008/10/16 13:07] Kickaha Wolfenhaut: Yes thanks.  
[2008/10/16 13:07] Aseret Quintessa: ty  
[2008/10/16 13:07] Scathach Rhiadra: oops, I've lost it  
[2008/10/16 13:07] Aseret Quintessa: lol Scath  
[2008/10/16 13:07] Scathach Rhiadra: the LM, not my mind:)  
[2008/10/16 13:07] Aseret Quintessa: :)  
[2008/10/16 13:07] CC Exonar is Offline  
[2008/10/16 13:07] Lambchop Magic: lol  
[2008/10/16 13:08] You: OK - Remember, there is lag. Go outside for some  
really beautiful stuff. See you there. Don't forget to come back and look  
at the display behind you  
[2008/10/16 13:08] You: lol  
[2008/10/16 13:08] Scathach Rhiadra accepted your inventory offer.

